Docket No. GJE-1080 Serial No. 10/580,769

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In the Claims

This listing of claims will replace all prior versions and listings of claims in this application.

1 (currently amended). A method for producing a micro-particle dry powder comprising a viral particle, comprising the steps step of:

spray-drying a mixture of the viral particle and a stabilizing carbohydrate using an outlet temperature of no more than 60°C,

wherein the stabilizing carbohydrate is trehalose.

2 (cancelled).

3 (previously presented). The method according to claim 1, wherein the concentration of the carbohydrate is from 2% w/v to 70% w/v.

4 (previously presented). The method according to claim 1, wherein the concentration of the carbohydrate is from 30% w/v to 60% w/v.

5 (previously presented). The method according to claim 1, wherein the concentration of the carbohydrate is from 40% w/v to 55% w/v.

6 (previously presented). The method according to claim 1, wherein the concentration of the carbohydrate is from 6% w/v to 12% w/v.

7 (previously presented). The method according to claim 1, wherein the spray dryer has an outlet temperature from 20 to 40°C.

- 8 (previously presented). The method according to claim 1, wherein the feed rate of the spray dryer is from 0.05 to 2 g/min.
- 9 (previously presented). The method according to claim 1, wherein the spray dryer nozzle-tip configuration is 1 bar 10L/sec to 3 bar 30L/sec.
- 10 (previously presented). The method according to claim 1, wherein the spray dryer nozzle-tip configuration is 1.5 bar 14L/sec.
- 11 (previously presented). The method according to claim 1, wherein the spray dryer nozzle-tip configuration is 3 bar 22L/sec.
- 12 (previously presented). The method according to claim 1, wherein the drying air pressure is from 1.5 bar to 3 bar.
- 13 (previously presented). The method according to claim 1, wherein the drying air flow rate is from 4.8L/sec to 8L/sec.
- 14 (previously presented). The method according to claim 1, wherein the atomization air flow rate is from 0.10 to 0.6L/sec.
- 15 (previously presented). The method according to claim 1, wherein the virus is an envelope virus.
- 16 (previously presented). The method according to claim 1, wherein the virus is measles.
- 17 (withdrawn). A virus-containing micro-particle dry powder obtainable by a method comprising the steps of:

spray-drying a mixture of the viral particle and a stabilizing carbohydrate using an outlet temperature of no more than 60°C.

18 (withdrawn). The virus-containing micro-particle dry powder according to claim 17, wherein each micro-particle is suitable for deep lung deposition.

19 (withdrawn). The virus-containing micro-particle dry powder according to claim 17, wherein each micro-particle is suitable for bronchiolar and upper pulmonary tract deposition.

20 (withdrawn). The virus-containing micro-particle dry powder according to claim 17, wherein the powder is suspended in a non-aqueous medium.

21 (withdrawn). The virus-containing micro-particle dry powder according to claim 20, wherein the non-aqueous medium is a perfluorocarbon.

22 (withdrawn). The virus-containing micro-particle dry powder according to claim 20, wherein the non-aqueous medium is an oil, selected from the group consisting of:

sesame oil, arachis oil, soya oil, mineral oil and ethyloeate.

23 (withdrawn). The virus-containing micro-particle dry powder according to claim 20, wherein the non-aqueous medium is selected from the group consisting of:

glycerol, ethylene glycol, propylene glycol, propylene oxide and polypropylene glycol.

24 (withdrawn). A vaccine comprising a virus-containing micro-particle dry powder wherein said powder is obtainable by a method comprising the steps of:

spray-drying a mixture of the viral particle and a stabilizing carbohydrate using an outlet temperature of no more than 60°C for use in a method of therapy.

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25 (withdrawn). A method for the treatment or prevention of a viral infection, wherein said method comprises administering, to a patient in need of such treatment, a virus-containing micro-particle dry powder obtainable by a method comprising the steps of:

spray-drying a mixture of the viral particle and a stabilizing carbohydrate using an outlet temperature of no more than 60°C.

26 (withdrawn). The method according to claim 25, wherein the infection is measles.

27 (withdrawn). The method according to claim 26, wherein the powder is processed in the form of a tablet or capsule.

28 (withdrawn). A sachet comprising a virus-containing micro-particle dry powder obtainable by a method comprising a viral particle, comprising the steps of:

spray-drying a mixture of the viral particle and a stabilizing carbohydrate using an outlet temperature of no more than 60° C.